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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/708,339	02/25/2004	Takeshi Ikeda	22040-00016-US2	2338
30678	7590	06/17/2004	EXAMINER	
CONNOLLY BOVE LODGE & HUTZ LLP			CHOE, HENRY	
SUITE 800			ART UNIT	
1990 M STREET NW			PAPER NUMBER	
WASHINGTON, DC 20036-3425			2817	

DATE MAILED: 06/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/708,339	Applicant(s) IKEDA ET AL.	
	Examiner Henry K Choe	Art Unit 2817	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 25 February 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-4 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>2/25/2004</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Franca-Neto (Fig. 2).

Franca-Neto (Fig. 2) discloses an amplifier circuit comprising FET means (M1, M2), and a tuning circuit (48, 52) which is connected between the FET means (M1, M2) and an output node (26) of the amplifier circuit (Fig. 2).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Franca-Neto (Fig. 2) in view of Sechi (Fig. 3).

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Franca-Neto (Fig. 2) discloses all the limitations in the claim 4 except for that the DC blocking capacitor located at a gate of FET. Sechi (Fig. 3) discloses an amplifier circuit comprising a DC blocking capacitor (16) which is located at a base of the transistor (21a). It would have been obvious to one of ordinary skill in the art, at the time the invention was made would have found it obvious to have employed the capacitor at the gate of the FET means of Franca-Neto (Fig. 2), such as taught by Sechi (Fig. 3) in order to provide the advantageous benefit of transmitting only RF frequency (high frequency) signal.

Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sechi (Fig. 3).

Regarding claims 1 and 2, Sechi (Fig. 3) discloses an amplifier circuit comprising transistor means (21a, 21b) which amplifies the AM broadcast signal (14), and tuning circuit (33) which is connected between the transistor means (21a, 21b) and an output node (36) of the amplifier circuit (Fig. 3) and wherein the transistor means includes two cascode-coupled n-bipolar transistors. As described above, Sechi (Fig. 3) discloses all the limitations in the claims except for that the transistor means being p-FETs. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have substituted well known art-recognized equivalent transistors such as the p-type FETs in place of the n-type bipolar transistors in the circuit of the Sechi (Fig. 3) because such a modification would have been considered a mere substitution of art-recognized equivalent transistors.

Regarding claim 3, the transistor means (21a, 21b) includes two cascode coupled n-bipolar transistors which receives the AM broadcast signal (14) and an AGC voltage (1B2).

Regarding claim 4, Sechi (Fig. 3) further discloses an amplifier circuit comprising a DC-blocking capacitor (16).

Conclusion

Patent number (5,339,048) is the amplifier with the tuning circuit.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Henry Choe whose telephone number is (571) 272-1760.



**HENRY CHOE
PRIMARY EXAMINER**

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